

REQUEST

The undersigned requests that the present

	For receiving Office use only
International Appl	ication No.
International Filin	g Date
Name of receiving	Office and "PCT International Application"

international application be processed according to the Patent Cooperation Treaty.	Name of receiving Offi	ce and "PCT Inter	national Application"
	Applicant's or agent's (if desired) (12 characte	file reference ers maximum) 30	794108WO01
BOX NO. I TITLE OF INVENTION HIGHLY EFFICIENT GALLIUM NITRIDE BASE ROUGHENING	D LIGHT EMITTIN	NG DIODES V	/IA SURFACE
	n is also inventor		
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this	Telephone No.	
THE REGENTS OF THE UNIVERSITY OF		Facsimile No.	
1111 Franklin Street, 12th Floor Oakland, California 94607		Teleprinter No.	
United States of America		Applicant's regis	tration No. with the Office
State (that is, country) of nationality: US	State (that is, country) US	of residence:	
This person is applicant all designated for the purposes of:		the United States of America only	the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)		
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of a Box is the applicant's State (that is, country) of residence if no State of residen FUJII, Tetsuo 7240 Davenport Road, #104 Goleta, California 93117 United States of America	he address indicated in this	inventor is market	t only t and inventor only (If this check-box d, do not fill in below.) tration No. with the Office
State (that is, country) of nationality: JP	State (that is, country) US	of residence:	
This person is applicant all designated for the purposes of:	d States except states of America	the United States of America only	the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated	on a continuation sheet.		
Box No. IV AGENT OR COMMON REPRESENTATIVE	; OR ADDRESS FOR	CORRESPOND	ENCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities		agent	common representative
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of c		Telephone No. 310-641-87	797
GATES, George H. Gates & Cooper LLP		Facsimile No. 310-641-87	798
6701 Center Drive West, Suite 1050 Los Angeles, California 90045		Teleprinter No.	
United States of America		Agent's registrati	ion No. with the Office
Address for correspondence: Mark this check-box where space above is used instead to indicate a special address to	no agent or common rep which correspondence s	presentative is/has	been appointed and the

		2
Sheet	Nα	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) If none of the following sub-boxes is used, this sheet should not be included in the request.				
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence GAO, Yan 705 Bolton Walk, #102 Goleta, California 93117 United States of America	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: CN	State (that is, country,) of residence:		
This person is applicant all designated all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence HU, Evelyn L. 1160 North Fairview Avenue Goleta, California 93117 United States of America	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)) of residence:		
This person is applicant all designated all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence NAKAMURA, Shuji P.O. Box 61656 Santa Barbara, California 93160 United States of America	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: JP	State (that is, country)) of residence:		
This person is applicant all designated all designated for the purposes of:	States except ates of America	the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)	of residence:		
		the United States the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Box No. V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

AE United Arab Emirates	HR Croatia	M Oman
🔀 AG Antigua and Barbuda	HU Hungary	
AL Albania		PH Philippines
	IL Israel	
AT Austria	☑ IN India	PT Portugal
AU Australia	☑ IS Iceland	RO Romania
AZ Azerbaijan	JP Japan	RU Russian Federation
BA Bosnia and Herzegovina	KE Kenya	
BB Barbados	KG Kyrgyzstan	SC Seychelles
BG Bulgaria	KP Democratic People's Republic	SD Sudan
BR Brazil	of Korea	SE Sweden
BY Belarus	KR Republic of Korea	SG Singapore
BZ Belize	KZ Kazakhstan	SK Slovakia
CA Canada	LC Saint Lucia	SL Sierra Leone
CH & LI Switzerland and Liechtenstein	LK Sri Lanka	SY Syrian Arab Republic
CN China		TJ Tajikistan
CO Colombia	LS Lesotho	
CR Costa Rica	LT Lithuania	TN Tunisia
CU Cuba	LU Luxembourg	TR Turkey
CZ Czech Republic		TT Trinidad and Tobago
DE Germany	MA Morocco	
DK Denmark	MD Republic of Moldova	
DM Dominica		UA Ukraine
DZ Algeria	MG Madagascar	UG Uganda
EC Ecuador	MK The former Yugoslav Republic of	US United States of America
EE Estonia	Macedonia	_
ES Spain	MN Mongolia	UZ Uzbekistan
FI Finland	MWMalawi	VC Saint Vincent and the Grenadines
GB United Kingdom	MX Mexico	
GD Grenada	MZ Mozambique	X YU Serbia and Montenegro
GE Georgia	NI Nicaragua	ZA South Africa
GH Ghana	NO Norway	ZM Zambia
M GM Gambia	NZ New Zealand	ZW Zimbabwe
		O to the California
	States which have become party to the PCT a	

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Sheet	No	4

Box No. VI PRIORITY CLAIM					
The priority of the following	earlier application(s) is here	by claimed:			
Filing date Number		V	Vhere earlier application	is:	
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office	
item (1)	·				
item (2)					
item (3)					
item (4)				***	
item (5)					
Further priority claims	are indicated in the Suppleme	ental Box.			
The receiving Office is required if the earlier application was above as:	ested to prepare and transmit filed with the Office which for	to the International Bureau the purposes of this interna	a certified copy of the entional application is the r	earlier application(s) (only ecceiving Office) identified	
X all items item ((1) item (2)	item (3)	(4) item (5)	other, see Supplemental Box	
* Where the earlier application Industrial Property or one M	on is an ARIPO application, in Tember of the World Trade Or	ganization for which that e	earlier application was fil	led (Rule 4.10(b)(ii)):	
Box No. VII INTERNATIONAL SEARCHING AUTHORITY					
Choice of International Sec	arching Authority (ISA) (if to	wo or more International S	earching Authorities are	competent to carry out the	
1	· · · · · · · · · · · · · · · · · · ·	•			
	rlier search; reference to t			at by or requested from the	
Date (day/month/year)	Numb	er Coun	try (or regional Office)		
Box No. VIII DECLARAT	Box No. VIII DECLARATIONS				
	are contained in Boxes Nos. ate in the right column the nun			Number of declarations	
Box No. VIII (i)	Declaration as to the identit	y of the inventor		:	
Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :			:	
Box No. VIII (iii)	No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :			:	
Box No. VIII (iv)	Declaration of inventorship United States of America)	o (only for the purposes of	the designation of the	. 1	
Box No. VIII (v)	Declaration as to non-preju	dicial disclosures or exce	ptions to lack of novelty	: : \$	

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v)
(in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

for the purposes of the designation of	of the United States of America:		
I hereby declare that I believe I am the original, first and sole (if only is listed below) inventor of the subject matter which is claimed and			
This declaration is directed to the international application of which it forms a part (if filing declaration with application).			
This declaration is directed to international application No. PCT/ to Rule $26ter$).	(if furnishing declaration pursuant		
I hereby declare that my residence, mailing address, and citizenship	are as stated next to my name.		
I hereby state that I have reviewed and understand the contents of the of said application. I have identified in the request of said application, and I have identified below, under the heading "Prior Applications," Organization, day, month and year of filing, any application for a pater States of America, including any PCT international application designs having a filing date before that of the application on which foreign p	in compliance with PCT Rule 4.10, any claim to foreign priority, by application number, country or Member of the World Tradent or inventor's certificate filed in a country other than the United ating at least one country other than the United.		
Prior Applications:			
I hereby acknowledge the duty to disclose information that is a 37 C.F.R. § 1.56, including for continuation-in-part applications, mate of the prior application and the PCT international filing date of the continuation.	rial information which became available between the filing date		
I hereby declare that all statements made herein of my own knowledge are believed to be true; and further that these statements were made made are punishable by fine or imprisonment, or both, under Section false statements may jeopardize the validity of the application or any	with the knowledge that willful false statements and the like so 1001 of Title 18 of the United States Code and that such willful		
Name: Tetsuo Fujii			
Residence: Goleta, California (city and either US state, if applicable, or country)			
Mailing Address: 7240 Davenport Road, #104			
Goleta, California 93117			
Citizenship: JAPAN			
Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	Date: Nov. 25 2003 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 261er after the filing of the international application)		
Name: Yan Gao			
- · · · - · · ·			
(city and either US state, if applicable, or country)			
Mailing Address: 705 Bolton Walk, #102			
Goleta California 93117			
Citizenship: CHINA	Date: Nov 25, 2003		
Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	Oate: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)		
This declaration is continued on the following sheet, "Continuati	on of Box No. VIII (iv)".		

Sheet No. 6

If the space is insufficient are to be named in Box No the information in the san	v. VIII (i) to (v) DECLARATION In any of Boxes Nos. VIII (t) to (v) to furnish all the information, including in the case where more than two inventors to VIII (tv), in such case, write "Continuation of Box No. VIII" (Indicate the Item number of the Box) and furnish to manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet the request
Continuation of B	ox N. VIII (iv):
Name:	Evelyn L. Hu
Residence:	Goleta, California
Mailing Address:	1160 North Fairview Avenue
•	Goleta, California 93117

Sheet No			
the information in the sam	in am of Boxes Nos. VIII (i) to (v) to furnish all the informa b. VIII (iv), in such case, write "Continuation of Box No. e manner as required for the purposes of the Box in whic declarations, a separate continuation box must be used fo	h the space was insulficient. If additional space is reede	
Continuation of B	ox N. VIII (iv):		
Name: Residence: Mailing Address:	Evelyn L. Hu Goleta, California 1160 North Fairview Avenue Goleta, California 93117		
Citizenship: US	•		
Inventor's Signate	ure:	Date:	
Name: Residence: Mailing Address:	Shuji Nakamura Santa Barbara, California P.O. Box 61656 Santa Barbara, California 93160		
Citizenship: JAP	AN CY MIN		
Inventor's Signati	ure: Leal WV	Date: Novaber 25, 03	

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Sheet	Nο	U

Box No. IX CHECK LIST; LANGUAGE OF FILING				
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items		
request (including declaration sheets) : 8	1. X fee calculation sheet 2. X original separate power of attorney	: 1		
description (excluding	3. Original general power of attorney			
sequence listings and/or tables related thereto) : 15	4. Copy of general power of attorney; reference number,			
claims : 3	if any:	: 1		
abstract : 1	5. statement explaining lack of signature	:		
drawings : 10	6. priority document(s) identified in Box No. VI as item(s):			
Sub-total number of sheets: 37	7. translation of international application into (language):			
tables related thereto : (for both, actual number of	separate indications concerning deposited microorganis or other biological material			
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)	·		
computer readable form; see (c) below) ———————	(i) copy submitted for the purposes of international sear Rule 13 <i>ter</i> only (and not as part of the international a			
Total number of sheets : 37 (b) only in computer readable form	(ii) (only where check-box (b)(i) or (c)(i) is marked in left co additional copies including, where applicable, the co	olumn)		
(Section 801(a)(i)) (i) sequence listings	purposes of international search under Rule 13 <i>ter</i> (iii) utgether with relevant statement as to the identity of	the copy or		
(ii) tables related thereto	copies with the sequence listings mentioned in left control tables in computer readable form related to sequence list			
(c) also in computer readable form (Section 801(a)(ii))	(indicate type and number of carriers) (i) □ copy submitted for the purposes of international sear			
(i) ☐ sequence listings(ii) ☐ tables related thereto	Section 802(b-quater) only (and not as part of the intapplication)	ernational :		
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	 (ii) (iii) (iii) (iv) (iv) (iv) (iv) (iv	py for the :		
sequence listings:	(iii) together with relevant statement as to the identity of copies with the tables mentioned in left column	the copy or		
tables related thereto:	11. Souther (specify): Transmittal sheet; Return postcard			
items 9(ii) and/or 10(ii), in right column)				
Figure of the drawings which should accompany the abstract:	Language of filing of the international application:			
Box No. X SIGNATURE OF APPLICANT	T, AGENT OR COMMON REPRESENTATIVE	om reading the request).		
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request). By:				
	For receiving Office use only			
Date of actual receipt of the purported international application:		2. Drawings:		
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:				
4. Date of timely receipt of the required corrections under PCT Article 11(2):				
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid				
	For International Bureau use only			
Date of receipt of the record copy by the International Bureau:				